



PTO/SB/08a/b (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>			<b>Complete If Known</b>		
			Application Number	10/785317	
			Filing Date	February 24, 2004	
			First Named Inventor	Armen N. Abazajian	
			Art Unit	N/A	
			Examiner Name	Not Yet Assigned	
Sheet	1	of	2	Attorney Docket Number	41290-00013USPT

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
JF	AA	US-3,852,207	12-03-1974	Stangeland et al.	
	AB	US-3,904,513	09-09-1975	Fischer et al.	
	AC	US-4,080,397	03-21-1978	Derr et al.	
	AD	US-4,131,568	12-26-1978	Bartish	
	AE	US-4,157,294	06-05-1979	Iwao et al.	
	AF	US-4,207,424	06-10-1980	Winnick	
	AG	US-4,497,968	02-05-1985	Wright et al.	
	AH	US-4,513,161	04-23-1985	Mauldin	
	AI	US-4,542,122	09-17-1985	Payne et al.	
	AJ	US-4,556,752	12-03-1985	Mauldin et al.	
	AK	US-4,568,663	02-04-1986	Mauldin	
	AL	US-4,579,995	04-01-1986	Mauldin	
	AM	US-4,628,135	12-09-1986	Owen et al.	
	AN	US-4,640,764	02-03-1987	Hamilton, Jr.	
	AO	US-4,663,305	05-05-1987	Mauldin et al.	
	AP	US-4,670,475	06-02-1987	Mauldin	
	AQ	US-4,751,345	06-14-1988	Mauldin	
	AR	US-4,755,536	07-05-1988	Mauldin, et al.	
	AS	US-4,762,959	08-09-1988	Mauldin et al.	
	AT	US-4,795,730	01-03-1989	Drake	
	AU	US-4,832,819	05-23-1989	Hamner	
	AV	US-4,973,453	11-27-1990	Agee	
	AW	US-5,023,389	06-11-1991	Grandvallet et al.	
	AX	US-5,227,563	07-13-1993	Fukuhara et al.	
	AY	US-5,432,152	07-11-1995	Dawson et al.	
	AZ	US-5,475,183	12-12-1995	Araki et al.	
	AA1	US-5,589,442	12-31-1996	Gee et al.	
	AB1	US-5,635,457	06-03-1997	Van Slyke	
	AC1	US-5,741,759	04-21-1998	Gee et al.	
	AD1	US-5,817,906	10-06-1998	Marker et al.	
✓	AE1	US-6,121,504	09-19-2000	Kuechler et al.	
	AF1	US-6,296,757	10-02-2001	Wittenbrink et al.	
JF	AG1	US-6,384,170	05-07-2002	Krull et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>3</sup>
		Country Code <sup>2</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
JF	BA	-EP 0 583 836	02-23-1994	Shell		
JF	BB	-WO 95/21226	08-10-1995	Chevron Chemical Company		
JF	BC	-WO 95/21225	08-10-1995	Chevron Chemical Company		
JF	BD	-WO 01/02325	01-11-2001	Sasol Tech.		
JF	BE	-WO 01/46096	06-28-2001	Sasol Tech.		

Examiner Signature	/John Figueroa/	Date Considered	12/24/2006
-----------------------	-----------------	--------------------	------------

HOUSTON 310198v1 41290-00013USPT

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>				<b>Complete If Known</b>	
				Application Number	10/785317
				Filing Date	February 24, 2004
				First Named Inventor	Armen N. Abazajian
				Art Unit	N/A
				Examiner Name	Not Yet Assigned
Sheet	2	of	2	Attorney Docket Number	41290-00013USPT

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \*\*CITE NO.: Those patent(s) or publication(s) which are marked with an double asterisk (\*\*) next to the Cite No. are not supplied because they were previously cited by or submitted to the Office in a prior application relied upon in this application for an earlier filing date under 35 U.S.C. 120. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials <sup>6</sup>	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
JF	CA	NATARAJAN, G.S., et al., "Alumina Catalyst for Alcohol Dehydration," Indian Journal of Tech., 10 (1972): 463-464.		
JF	CB	LURGI, "Dehydration of Fatty Alcohols to Alpha-Olefins," pgs. 1-4.		
JF	CC	S.A. ALI, H.S. MAZHAR ET AL., "Catalyst Conversion of Isopropanol on A1203-Nd203 Supported on Silica," Afinidad 53 (1996) 61.		
JF	CD	R.M. CURSETJI, A.N. SINGH and A.C. DEO, "Ethylene from Ethyl Alcohol on High Silica Zeolite Catalyst," Chem. Age of India, Vol. 37, No. 6, June 1986, 407-410.		
JF	CE	JOSE CORELLA and JOSE M. ASUA, "Kinetics and Mechanism of Deactivation by Fouling of a Silica-Alumina Catalyst," The Canadian Journ. of Chem. Eng., Vol. 59, Aug. 1981, 506-510.		

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	/John Figueroa/	Date Considered	12/24/2006
--------------------	-----------------	-----------------	------------



IN LIEU OF PTO-SB/08.

<b>Substitute for form 1449A/B/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	10/785317
				Filing Date	February 24, 2004
				First Named Inventor	Armen N. Abazajian
				Art Unit	1621
				Examiner Name	Not Yet Assigned
Sheet	1	of	1	Attorney Docket Number	41290-00013USPT

U.S. PATENT DOCUMENTS				
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number-Kind Code <sup>2</sup> (if known)		
JF	A1	US-5,833,839	11-10-1998	Wittenbrink et al.
JF	A2	US-6,096,690	08-01-2000	Wittenbrink et al.
JF	A3	US-6,110,874	08-29-2000	Van Slyke
JF	A4	US-6,455,474	09-24-2002	Wittenbrink et al.

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document		T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	/John Figueroa/	Date Considered	12/24/2006
-----------------------	-----------------	--------------------	------------